OIPE

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION *US/09/036,113*

DATE: 03/18/98
TIME: 11:34:16

INPUT SET: S24228.raw

> **This Raw Listing contains the General**
> **Information Section and up to the first 5 pages.**

```
 1                                    SEQUENCE LISTING
 2
 3   (1)     General Information:
 4
 5        (i) APPLICANT: Cupp, Mary S.
 6                       Cupp, Eddie W.
 7
 8       (ii) TITLE OF INVENTION: ANTITHROMBIN PROTEIN AND DNA SEQUENCES
 9
10      (iii) NUMBER OF SEQUENCES: 2
11
12       (iv) CORRESPONDENCE ADDRESS:
13            (A) ADDRESSEE: W. Murray Spruill (Alston & Bird, LLP)
14            (B) STREET: 3605 Glenwood Ave. Suite 310
15            (C) CITY: Raleigh
16            (D) STATE: NC
17            (E) COUNTRY: USA
18            (F) ZIP: 27622
19
20        (v) COMPUTER READABLE FORM:
21            (A) MEDIUM TYPE: Floppy disk
22            (B) COMPUTER: IBM PC compatible
23            (C) OPERATING SYSTEM: PC-DOS/MS-DOS
24            (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
25
26       (vi) CURRENT APPLICATION DATA:
27            (A) APPLICATION NUMBER:
28            (B) FILING DATE:
29            (C) CLASSIFICATION:
30
31     (viii) ATTORNEY/AGENT INFORMATION:
32            (A) NAME: Spruill, W. Murray
33            (B) REGISTRATION NUMBER: 32,943
34            (C) REFERENCE/DOCKET NUMBER: 5721-5
35
36       (ix) TELECOMMUNICATION INFORMATION:
37            (A) TELEPHONE: 919 420 2202
38            (B) TELEFAX: 919 881 3175
39
40
41   (2) INFORMATION FOR SEQ ID NO:1:
42
43        (i) SEQUENCE CHARACTERISTICS:
44            (A) LENGTH: 532 base pairs
45            (B) TYPE: nucleic acid
46            (C) STRANDEDNESS: single
```

INPUT SET: S24228.raw

```
47                (D) TOPOLOGY: linear
48
49          (ii) MOLECULE TYPE: cDNA
50
51          (vi) ORIGINAL SOURCE:
52                (A) ORGANISM: Simulium vittatum
53
54          (ix) FEATURE:
55                (A) NAME/KEY: CDS
56                (B) LOCATION: 1..294
57
58
59          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
60
61  GAG GTG GCG AAT TTG CAG GAC CAT CGA GCT GTT GAA TTT GTG TGC GAG          48
62  Glu Val Ala Asn Leu Gln Asp His Arg Ala Val Glu Phe Val Cys Glu
63   1               5                   10                  15
64
65  AAG GAT ACT GAA AAC CAG CAT GGT TCC GAT TGC CTG CTT TCT TGT GAC          96
66  Lys Asp Thr Glu Asn Gln His Gly Ser Asp Cys Leu Leu Ser Cys Asp
67               20                  25                  30
68
69  GTG ATG TTC TGG GAT ACC AAA AAC GAG AAC AAC AAG GAA TAT GAA GAC          144
70  Val Met Phe Trp Asp Thr Lys Asn Glu Asn Asn Lys Glu Tyr Glu Asp
71               35                  40                  45
72
73  AGA TAC AAT TTG TGC AAA CAT TCA GCC GCT TCC GAA GAG AAC ATT TGT          192
74  Arg Tyr Asn Leu Cys Lys His Ser Ala Ala Ser Glu Glu Asn Ile Cys
75       50                  55                  60
76
77  GAT CGC AAT GAA GAA TTG AGA GCC TGT TTC TTG CAT GAT TCG TCA TAC          240
78  Asp Arg Asn Glu Glu Leu Arg Ala Cys Phe Leu His Asp Ser Ser Tyr
79  65                  70                  75                  80
80
81  GAA GAG ACT TCG GAC GAA TAT GAA ATA ACC TAC AGC ATG GAT TCC CTG          288
82  Glu Glu Thr Ser Asp Glu Tyr Glu Ile Thr Tyr Ser Met Asp Ser Leu
83                   85                  90                  95
84
85  TGA TGA TCAAACATTG GTAATAGTTC AATTGATCGA AATATGCAGA AACCGTCCAC          344
86   *   *
87
88
89  GGTAGTGTAA TTATAACCCA TGTTGTTCGC ATTGTACTCT AATTCTACTC CGTTCATATA          404
90
91  TGGCTGATGA GTGCCATCCA GCCAATGTGA AACAGGAGTA TAAAAAGCAC AATGTGGGTG          464
92
93  ACAGTCCCAT TCACACAATA TGCAAATAAA ATAATGGAAA TGACCCCAAA AAAAAAAAAA          524
94
95  AAAAAAAA                                                                  532
96
97
98  (2) INFORMATION FOR SEQ ID NO:2:
99
```

INPUT SET: S24228.raw

```
100            (i)  SEQUENCE CHARACTERISTICS:
101                 (A)  LENGTH: 96 amino acids
102                 (B)  TYPE: amino acid
103                 (D)  TOPOLOGY: linear
104
105           (ii)  MOLECULE TYPE: protein
106
107           (xi)  SEQUENCE DESCRIPTION: SEQ ID NO:2:
108
109   Glu Val Ala Asn Leu Gln Asp His Arg Ala Val Glu Phe Val Cys Glu
110    1               5               10              15
111
112   Lys Asp Thr Glu Asn Gln His Gly Ser Asp Cys Leu Leu Ser Cys Asp
113               20              25              30
114
115   Val Met Phe Trp Asp Thr Lys Asn Glu Asn Asn Lys Glu Tyr Glu Asp
116           35              40              45
117
118   Arg Tyr Asn Leu Cys Lys His Ser Ala Ala Ser Glu Glu Asn Ile Cys
119       50              55              60
120
121   Asp Arg Asn Glu Glu Leu Arg Ala Cys Phe Leu His Asp Ser Ser Tyr
122    65              70              75              80
123
124   Glu Glu Thr Ser Asp Glu Tyr Glu Ile Thr Tyr Ser Met Asp Ser Leu
125               85              90              95
126
127
128
129
```

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/09/036,113*

INPUT SET: S24228.raw

Line   Error   Original Text